ELSEVIER

Journal of Organometallic Chemistry 508 (1996) 285–290

Journal of Organometallic Chemistry

Subject Index of Volume 508

Acetylacetonato μ-hydroxo complexes
Synthesis of some μ-hydroxo-, phenoxo- and O,O-acetylacetonato-arylgold(III) complexes. Crystal structure of $[Au(C_6H_4NO_2-2)_2(\mu\text{-}OH)]_2 \cdot 2Et_2O$ (J. Vicente, M.D. Bermúdez, F.J. Carrión and P.G. Jones), 53

Acetylide complex
Preparation and some properties of Pt(II) ruthenocenylacetylide complexes (M. Sato and E. Mogi), 159

Acid halide
Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49

Aldehyde
Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$ (D. Röttger, S. Schmuck and G. Erker), 263
Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49

Aliphatic diols
Reactions of trimethylaluminium with aliphatic diols (W. Ziemkowska and S. Pasynkiewicz), 243

Alkali metals
Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand (H.V.R. Dias, Z. Wang and S.G. Bott), 91

Alkylidyne
The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137

Alkyne
Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen (H. Singer und M. Steigerwald), 267

Alkynyl
Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{\equiv}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23

Allenylidene complexes
Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat), 31

Allyl transfer
Mechanism of oxidative allyl transfer from allylic ammonium cations to palladium(0) α-diimine complexes (L. Canovese, F. Visentin, P. Uguagliati, F. Di Bianca, A. Fontana and B. Crociani), 101

Aluminium
Reactions of trimethylaluminium with aliphatic diols (W. Ziemkowska and S. Pasynkiewicz), 243
Synthesis, properties and crystal structure bis(cyclopentadienyl)-aluminium complex $[\eta^1\text{-}(C_5H_5)_2AlO\text{-}^iPr]_2$ (A. Kunicki, R. Sadowski and J. Zachara), 249

Amide
Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand (H.V.R. Dias, Z. Wang and S.G. Bott), 91

Aminophosphines
Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1′-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209

Antimony
Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49

BPZM
Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69

Butyrolactone
Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83

Carbenium ions
Reaction of sodium amalgam with carbenium ions species stabilised by two adjacent organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer and R. Kergoat), 1
Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat), 31

Carbon monoxide
Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109

Carbonyl
Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59
Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183
^{55}Mn and ^{187}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes (G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova), 129

Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231

Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_5(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75

Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7

The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137

Carbonyl complexes

Optically active transition-metal complexes. III. Synthesis of optically active (η^4-aminodiolefin)tricarbonyl iron complexes. Kinetic resolution of a chiral amine by means of an optically active dienyl iron cation (M. Käser and A. Salzer), 219

Catalysis

Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109

Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid (U. Pätzold, G. Roewer und U. Herzog), 147

Palladium-catalyzed reaction of 1-aza-5-germa-5-organobicyclo-[3.3.3]undecane with aryl bromide (M. Kosugi, T. Tanji, Y. Tanaka, A. Yoshida, K. Fugami, M. Kameyama and T. Migita), 255

Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69

Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen (H. Singer und M. Steigerwald), 267

Catalyst

Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1′-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209

Charge density analysis

Electron density distribution in the vanadocene crystal on the basis of X-ray diffraction data at 108 K (M.Yu. Antipin, K.A. Lyssenko and R. Boese), 259

Chemoselective reaction

Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49

Chirality

Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen (H. Singer und M. Steigerwald), 267

Chromium

Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7

Circular dichroism

Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation (G. Kutschera, C. Kratky, W. Weissensteiner and M. Widhalm), 195

Clusters

Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_5(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75

Cobalt

Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59

Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183

Cod

Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69

Complexes

Reactions of trimethylaluminium with aliphatic diols (W. Ziemkowska and S. Pasynkiewicz), 243

Cross-coupling

Palladium-catalyzed reaction of 1-aza-5-germa-5-organobicyclo-[3.3.3]undecane with aryl bromide (M. Kosugi, T. Tanji, Y. Tanaka, A. Yoshida, K. Fugami, M. Kameyama and T. Migita), 255

Crown compounds

Crown compounds for anions. A polymeric complex of cyclic trimeric perfluoro-*o*-phenylenemercury with thiocyanate anion containing an infinite helical chain of alternating molecules of mercury-containing macrocycle and SCN^- ions (I.A. Tikhonova, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov, A.N. Gavrilova, L.N. Saitkulova, E.S. Shubina, L.M. Epstein, G.G. Furin and V.B. Shur), 271

Crystal structure

Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109

Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231

Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand (H.V.R. Dias, Z. Wang and S.G. Bott), 91

Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{\equiv}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{\equiv}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39

Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1′-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209

Synthesis of some μ-hydroxo-, phenoxo- and O,O-acetylacetonato-arylgold(III) complexes. Crystal structure of $[Au(C_6H_4NO_2-2)_2(\mu\text{-}OH)]_2 \cdot 2Et_2O$ (J. Vicente, M.D. Bermúdez, F.J. Carrión and P.G. Jones), 53

The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137

Cyanide

Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{=}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23

Cyclization

Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83

Cyclooctatetraenyl

Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln(HBpz$_3$) und (COT)Ln[HB(3,5-Me$_2$pz)$_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden (H.-D. Amberger und F.T. Edelmann), 275

Cyclopentadienyl

Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231

Synthesis, properties and crystal structure bis(cyclopentadienyl)-aluminium complex $[\eta^1\text{-}(C_5H_5)_2AlO\text{-}^iPr]_2$ (A. Kunicki, R. Sadowski and J. Zachara), 249

Diphosphine

Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation (G. Kutschera, C. Kratky, W. Weissensteiner and M. Widhalm), 195

Early transition metals

Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$ (D. Röttger, S. Schmuck and G. Erker), 263

EHMO calculations

Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{=}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23

Electrochemistry

Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{=}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23

Electron–nuclear motions

^{55}Mn and ^{187}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes (G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova), 129

Ferrocene

Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1'-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209

Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat), 31

Ferrocenophane

Reaction of sodium amalgam with carbenium ions species stabilised by two adjacent organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer and R. Kergoat), 1

Ferrocenyl

Reaction of sodium amalgam with carbenium ions species stabilised by two adjacent organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer and R. Kergoat), 1

Germanium

Palladium-catalyzed reaction of 1-aza-5-germa-5-organobicyclo-[3.3.3]undecane with aryl bromide (M. Kosugi, T. Tanji, Y. Tanaka, A. Yoshida, K. Fugami, M. Kameyama and T. Migita), 255

Gold

Synthesis of some μ-hydroxo-, phenoxo- and O,O-acetylacetonato-arylgold(III) complexes. Crystal structure of $[Au(C_6H_4NO_2-2)_2(\mu\text{-}OH)]_2 \cdot 2Et_2O$ (J. Vicente, M.D. Bermúdez, F.J. Carrión and P.G. Jones), 53

Group 4

Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$ (D. Röttger, S. Schmuck and G. Erker), 263

Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand (H.V.R. Dias, Z. Wang and S.G. Bott), 91

Halogenosilanes

Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid (U. Pätzold, G. Roewer und U. Herzog), 147

Heteroannularly-bridged ferrocene

Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation (G. Kutschera, C. Kratky, W. Weissensteiner and M. Widhalm), 195

Hydride

Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$ (D. Röttger, S. Schmuck and G. Erker), 263

Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69

Hydroformylation

Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59

Hydrogenation

Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid (U. Pätzold, G. Roewer und U. Herzog), 147

Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69

Imine

Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109

Indenyl complexes
Ring slippage in indenyl derivatives of molybdenum and tungsten (J.R. Ascenso, I.S. Gonçalves, E. Herdtweck and C.C. Romão), 169
Iridium
Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_3(\mu\text{-}PR_2)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75
Iron
Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{\equiv}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23
Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183
Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation (G. Kutschera, C. Kratky, W. Weissensteiner and M. Widhalm), 195
Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231
Optically active transition-metal complexes. III. Synthesis of optically active (η^4-aminodiolefin)tricarbonyl iron complexes. Kinetic resolution of a chiral amine by means of an optically active dienyl iron cation (M. Käser and A. Salzer), 219
Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1'-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209
Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat), 31
Synthetic studies of permethylcyclopentadienyl ruthenium(II) complexes involving dppf, (±)-BINAP and (±)-DIOP ligands (M. Sato and M. Asai), 121
Isomers
Reactions of trimethylaluminium with aliphatic diols (W. Ziemkowska and S. Pasynkiewicz), 243

Ketone
Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49
Kinetic resolution
Optically active transition-metal complexes. III. Synthesis of optically active (η^4-aminodiolefin)tricarbonyl iron complexes. Kinetic resolution of a chiral amine by means of an optically active dienyl iron cation (M. Käser and A. Salzer), 219
Kinetic studies
Mechanism of oxidative allyl transfer from allylic ammonium cations to palladium(0) α-diimine complexes (L. Canovese, F. Visentin, P. Uguagliati, F. Di Bianca, A. Fontana and B. Crociani), 101

Late transition metals
Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109
Ligand bridged
Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{\equiv}C(CH_2)_2CN$ (G.A. Carriedo, A. Arancibia, C. Díaz-Valenzuela, N. Yutronic, E. Pérez-Carreño and S. García-Granda), 23
Ligand field theory
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln($HBpz_3$) und (COT)Ln[$HB(3,5\text{-}Me_2pz)_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden (H.-D. Amberger und F.T. Edelmann), 275

Macrocycle
Crown compounds for anions. A polymeric complex of cyclic trimeric perfluoro-*o*-phenylenemercury with thiocyanate anion containing an infinite helical chain of alternating molecules of mercury-containing macrocycle and SCN^- ions (I.A. Tikhonova, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov, A.N. Gavrilova, L.N. Saitkulova, E.S. Shubina, L.M. Epstein, G.G. Furin and V.B. Shur), 271
Manganese
^{55}Mn and ^{187}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes (G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova), 129
Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183
Mercury
Crown compounds for anions. A polymeric complex of cyclic trimeric perfluoro-*o*-phenylenemercury with thiocyanate anion containing an infinite helical chain of alternating molecules of mercury-containing macrocycle and SCN^- ions (I.A. Tikhonova, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov, A.N. Gavrilova, L.N. Saitkulova, E.S. Shubina, L.M. Epstein, G.G. Furin and V.B. Shur), 271
Metallocene
Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand (H.V.R. Dias, Z. Wang and S.G. Bott), 91
MO calculations
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln($HBpz_3$) und (COT)Ln[$HB(3,5\text{-}Me_2pz)_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden (H.-D. Amberger und F.T. Edelmann), 275
Molecular oxygen
Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83
Molybdenum
Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7
Ring slippage in indenyl derivatives of molybdenum and tungsten (J.R. Ascenso, I.S. Gonçalves, E. Herdtweck and C.C. Romão), 169
Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat), 31

Molybdenum clusters
Reaction of sodium amalgam with carbenium ions species stabilised by two adjacent organometallic moieties (J.-F. Capon, N. Le Berre-Cosquer and R. Kergoat), 1

Nitrosyl
Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183
NMR spectroscopy
Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_3(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75
Nuclear magnetic resonance
Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231
Synthesis, properties and crystal structure bis(cyclopentadienyl)-aluminium complex $[\eta^1\text{-}(C_5H_5)_2AlO\text{-}^iPr]_2$ (A. Kunicki, R. Sadowski and J. Zachara), 249
Nuclear Quadrupole Resonance
^{55}Mn and ^{185}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes (G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova), 129

Optically active ligands
Optically active transition-metal complexes. III. Synthesis of optically active (η^4-aminodiolefin)tricarbonyl iron complexes. Kinetic resolution of a chiral amine by means of an optically active dienyl iron cation (M. Käser and A. Salzer), 219
Optical spectra
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln(HBpz$_3$) und (COT)Ln[HB(3,5-Me$_2$pz)$_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden (H.-D. Amberger und F.T. Edelmann), 275
Oxidation
Preparation and some properties of Pt(II) ruthenocenylacetylide complexes (M. Sato and E. Mogi), 159
Oxidative cleavage
Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83

Palladium
Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes (R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk), 109
Mechanism of oxidative allyl transfer from allylic ammonium cations to palladium(0) α-diimine complexes (L. Canovese, F. Visentin, P. Uguagliati, F. Di Bianca, A. Fontana and B. Crociani), 101
Palladium-catalyzed reaction of 1-aza-5-germa-5-organobicyclo-[3.3.3]undecane with aryl bromide (M. Kosugi, T. Tanji, Y. Tanaka, A. Yoshida, K. Fugami, M. Kameyama and T. Migita), 255
Palladium(II)
Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83
Palladium complex
Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1'-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts (A. Mernyi, C. Kratky, W. Weissensteiner and M. Widhalm), 209
Pentaarylantimony
Reaction of pentaarylantimony with acid halide, aldehyde and ketone (M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma), 49
Phosphine
Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$ (J.T. Lin, S.Y. Wang, Y.C. Chou, M.L. Gong, Y.-M. Shiow, H.-M. Gau and Y.S. Wen), 183
Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_3(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75
Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen (H. Singer und M. Steigerwald), 267
Phosphonium allenyl ligand
Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{=}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{=}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39
Phosphonium complexes
Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{=}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{=}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39
Phosphorus
Reactions of (THF)W(CO)$_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7
Pinene
Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59
Platinum complex
Preparation and some properties of Pt(II) ruthenocenylacetylide complexes (M. Sato and E. Mogi), 159
Praseodymium
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln(HBpz$_3$) und (COT)Ln[HB(3,5-Me$_2$pz)$_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden (H.-D. Amberger und F.T. Edelmann), 275
Protonation
Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{=}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{=}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39
Pyridyl
Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_3(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl) (K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber), 75

Rhenium
^{55}Mn and ^{187}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes (G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova), 129
Rhodium
Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59
Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen (H. Singer und M. Steigerwald), 267
Ring slippage
Ring slippage in indenyl derivatives of molybdenum and tungsten (J.R. Ascenso, I.S. Gonçalves, E. Herdtweck and C.C. Romão), 169
Ring substituents
Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231
Ruthenium
Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene) (F.A. Jalón, A. Otero, A. Rodríguez and M. Pérez-Manrique), 69
Synthetic studies of permethylcyclopentadienyl ruthenium(II) complexes involving dppf, (±)-BINAP and (±)-DIOP ligands (M. Sato and M. Asai), 121
Ruthenocene
Preparation and some properties of Pt(II) ruthenocenylacetylide complexes (M. Sato and E. Mogi), 159

Silicon
Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid (U. Pätzold, G. Roewer und U. Herzog), 147
Six-electronic propargyl ligand
Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{\equiv}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{\equiv}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39
Spectroscopy
Reactions of trimethylaluminium with aliphatic diols (W. Ziemkowska and S. Pasynkiewicz), 243
Stereoselectivity
Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane (F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini), 59
Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex (G. Zhu and X. Lu), 83
Steric effects
Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on $(\eta^5\text{-}C_5Me_4R)Fe(CO)(L)I$ (R = H, ^{t}Bu) (K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville), 231
Tributylstannane
Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid (U. Pätzold, G. Roewer und U. Herzog), 147
Tricobalt
The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137
Triosmium clusters
Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{\equiv}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{\equiv}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$) (V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze), 39
Tungsten
Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7
Ring slippage in indenyl derivatives of molybdenum and tungsten (J.R. Ascenso, I.S. Gonçalves, E. Herdtweck and C.C. Romão), 169

Vanadocene
Electron density distribution in the vanadocene crystal on the basis of X-ray diffraction data at 108 K (M.Yu. Antipin, K.A. Lyssenko and R. Boese), 259
Vinyl
The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137
Vinylphosphine
The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$ (G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan), 137

X-ray
Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups (D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji), 7
X-ray diffraction
Synthesis, properties and crystal structure bis(cyclopentadienyl)-aluminium complex $[\eta^1\text{-}(C_5H_5)_2AlO\text{-}^iPr]_2$ (A. Kunicki, R. Sadowski and J. Zachara), 249
X-ray structure
Electron density distribution in the vanadocene crystal on the basis of X-ray diffraction data at 108 K (M.Yu. Antipin, K.A. Lyssenko and R. Boese), 259
Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation (G. Kutschera, C. Kratky, W. Weissensteiner and M. Widhalm), 195
Ring slippage in indenyl derivatives of molybdenum and tungsten (J.R. Ascenso, I.S. Gonçalves, E. Herdtweck and C.C. Romão), 169

Zirconium
Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$ (D. Röttger, S. Schmuck and G. Erker), 263